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FEDERAL-STATE-PRIVATE
COOPERATIVE SNOW SURVEYS



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PROCUREMENT SECTION
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WATER SUPPLY OUTLOOK FOR ARIZONA

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

SALT RIVER VALLEY WATER USERS ASSOCIATION

and

ARIZONA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

AS OF
JAN. 15, 1972

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR ARIZONA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D. C.

|||||
Released by

MARION E. STRONG
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
PHOENIX, ARIZONA

In Cooperation with

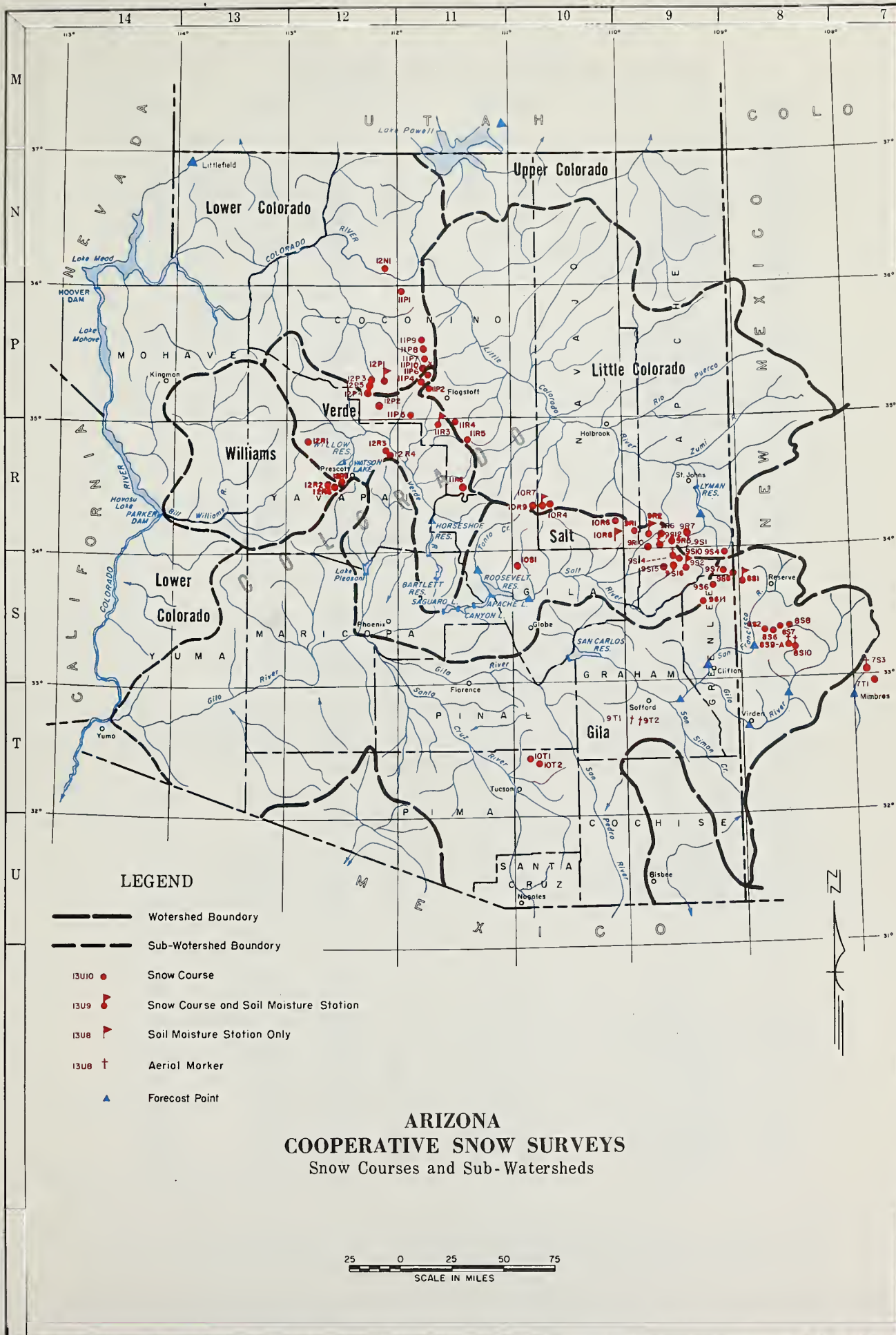
RICHARD K. FREVERT
DIRECTOR
ARIZONA AGRICULTURAL
EXPERIMENT STATION

FLOYD N. SMITH
PRESIDENT
SALT RIVER VALLEY WATER
USERS ASSOCIATION

|||||
Report prepared by

RICHARD W. ENZ, Snow Survey Supervisor

SOIL CONSERVATION SERVICE
ROOM 6029 FEDERAL BUILDING
PHOENIX, ARIZONA 85025



INDEX to SNOW COURSES and SOIL MOISTURE STATIONS

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.	DRAINAGE	OBSERVER
11P10-A	Agassiz	32	23N	7E	11200	Little Colorado	SCS-USBR
11R6	Baker Butte (p)	4	12N	9E	7300	Verde	SCS
9S1-A	Baldy (p)	28	7N	27E	9125	Little Colorado	SCS
9S15	Baldy #2	12	6N	26E	9750	Little Colorado	SCS-FS
9S16	Baldy #3	13	6N	26E	10950	Little Colorado	SCS-FS
10T1	Bear Wallow	6	12S	16E	8100	Gila	FS
9S6	Beaver Head	13	4N	30E	8000	San Francisco	Pvt-SRP
12P5	Bill Williams Intermediate	17	21N	2E	8550	Cataract	FS
12P4	Bill Williams Summit	17	21N	2E	8950	Verde	FS
9S10-*	Black River Divide	10	6N	27E	9400	Salt	SCS
12N1	Bright Angel	34	33N	3E	8400	Bright Angel Creek	NPS
12R1	Camp Wood	3	16N	6W	5700	Verde	FS
10R7-M	Canyon Creek #2	18	11N	15E	7500	Little Colorado	SCS
10R9	Canyon Point (p)	28	11N	14E	7600	Salt	SCS
12P1-M	Chalender	27	22N	3E	7100	Verde	FS
9R7	Cheese Springs	28	8N	27E	8600	Little Colorado	SCS
12R6	Copper Basin Divide (p)	23	13N	3W	6720	Verde	SCS
10R8-*	Corduroy Creek	4	8N	21E	6000	Salt	SCS
9S7	Coronado Trail	26	5N	30E	8000	San Francisco	FS
9T2-A	Crazy Horse	34	8S	24E	10200	Gila	FS
7T1	Emory Pass #1	16	16S	9W**	7800	Mimbres	SCS
7T2	Emory Pass #2	16	16S	9W**	7800	Mimbres	SCS
10R6	Forest Dale	2	9N	21E	6430	Salt	BIA
9R5	Ft. Apache	18	7N	27E	9160	Little Colorado	SCS
11P2	Ft. Valley (p)	22	22N	6E	7350	Little Colorado	FS
8S1-M	Frisco Divide	31	6S	20W**	8000	San Francisco	FS
12R4	Gaddes Canyon	11	15N	2E	7600	Verde	Pvt
11P1	Grand Canyon	21	30N	4E	7500	Hance Creek	NPS
9S11	Hannagan Meadows (p)	19	3N	29E	9090	San Francisco	Pvt
11R5	Happy Jack	30	17N	9E	7630	Verde	FS
9R10	Hawley Lake	13	7N	24E	8300	Salt	BIA
10R4	Heber (p)	28	11N	15E	7600	Little Colorado	SCS
9T1-A	High Peak	34	8S	24E	10500	Gila	FS
8S9-A	Hummingbird	19	11S	17W**	10550	Gila	Pvt-SCS
8S6	Ice King	6	11S	18W**	8020	San Francisco	Pvt-SCS
11P9	Inner Basin #1 (p)	28	23N	7E	10000	Little Colorado	SCS-USBR
11P8	Inner Basin #2 (p)	28	23N	7E	9750	Little Colorado	SCS-USBR
11P7	Inner Basin #3	3	23N	7E	10250	Little Colorado	SCS-USBR
12R2	Iron Springs	22	14N	3W	6200	Bill Williams	SCS
9S2-A	Maverick Fork (p)	13	6N	27E	9150	Salt	SCS
7S3-A	McKnight Cabin	10	15S	10W**	9300	Mimbres	Pvt-SCS
9R2-M	McNary	23	8N	23E	7200	Salt	BIA
9R1	Milk Ranch	33	8N	23E	7000	Salt	BIA
12R3	Mingus Mountain	3	15N	2E	7100	Verde	Pvt
8S2	Mogollon	2	11S	19W**	7000	San Francisco	Pvt
11R4	Mormon Lake	13	18N	8E	7350	Little Colorado	SCS
11R3-M-A	Mormon Mountain (p)	14	18N	8E	7500	Verde	SCS
9S12-A	Mt. Ord	4	6N	26E	11200	Salt	SRP-SCS
11P5-M	Newman Park	25	19N	6E	6750	Verde	SCS
9S4	Nutriso	23	6N	30E	8500	San Francisco	FS
8S7	Redstone Trail	5	11S	18W**	8600	San Francisco	Pvt
10T2	Rose Canyon	15	12S	16E	7300	Gila	FS
8S8	Silver Creek Divide	4	11S	18W**	9000	San Francisco	Pvt
9S14-A	Smith Cienega	10	6N	26E	10050	Salt	SRP-SCS
11P4	Snow Bowl #1 (p)	36	23N	6E	10260	Verde	FS
11P6	Snow Bowl #2	31	23N	7E	11000	Verde	FS
9S8	State Line	6	6S	21W**	8000	San Francisco	FS
12P2	White Horse Lake Jct.	2	20N	2E	7180	Verde	FS
12R5	White Spar	19	13N	2W	6000	Verde	SCS
8S10-A	Whitewater	19	11S	17W**	10750	Gila	Pvt-SCS
12P3	Williams Ski Run	9	21N	2E	7720	Cataract	FS
9R6	Wilson Lake (p)	4	7N	26E	9000	Salt	SCS
10S1	Workman Creek	33	6N	14E	6900	Salt	FS

M SOIL MOISTURE STA.

(p) STORAGE GAGE

A AERIAL SNOW DEPTH MARKER

* SOIL MOISTURE STA. ONLY

** NM PRINCIPAL MERIDIAN

ARIZONA WATER SUPPLY OUTLOOK

JANUARY 15, 1972

The 1972 water supply outlook is slightly better than normal for most areas. Snow cover and reservoir storage are about average, but soil moisture conditions are well above average.

SNOW COVER

A good snow pack was building up nicely until late December when warm temperatures, accompanied by rain, melted virtually all the snow below 7500 feet. The Verde Watershed was most affected by this condition, resulting in a January 15 snow cover of only 62% of average. Snow cover on the Salt is just average; on the Gila, 110%; and on the Little Colorado Watershed, 108% of average. Above 8000 feet the snow pack is well above average on all watersheds. Snow depths of 40 to 70 inches with water contents of 13 to 20 inches were measured at 10,000 to 11,000 feet on the San Francisco Peaks and White Mountains of Arizona and the Mogollon Mountains of New Mexico.

PRECIPITATION

Very heavy precipitation occurred in October, producing good runoff and saturated soils. This was followed by low precipitation in November, high again in December, and practically nothing thus far in January. Since November 1, precipitation is near normal in most areas except on the Verde where it is about 30% below average. At the higher elevations, the heavy precipitation during October will still have some effect on spring runoff, but below 9000 feet this water has been consumed or has already run off.

SOIL MOISTURE

Excellent soil moisture exists on all watersheds. The surface is drying at the intermediate and lower levels, although soils are generally close to field capacity. Better than average water yields may be expected from normal precipitation in the next few months.

RESERVOIR STORAGE

Salt River Project Reservoirs are about half full, containing a slightly above average water supply, but less than last year on this date. San Carlos Reservoir contains 50% above average, but is only 14% of capacity. This is, however, 13 times more than that in storage a year ago. Storage in the Colorado River Reservoir is 62% of capacity and 75% above the 1953-67 average.

STREAMFLOW AND WATER SUPPLY

The excellent runoff since October has greatly improved the water supply outlook. Normal or above runoff is expected from the Salt, Gila, and Little Colorado Rivers and only slightly below average from the Verde.

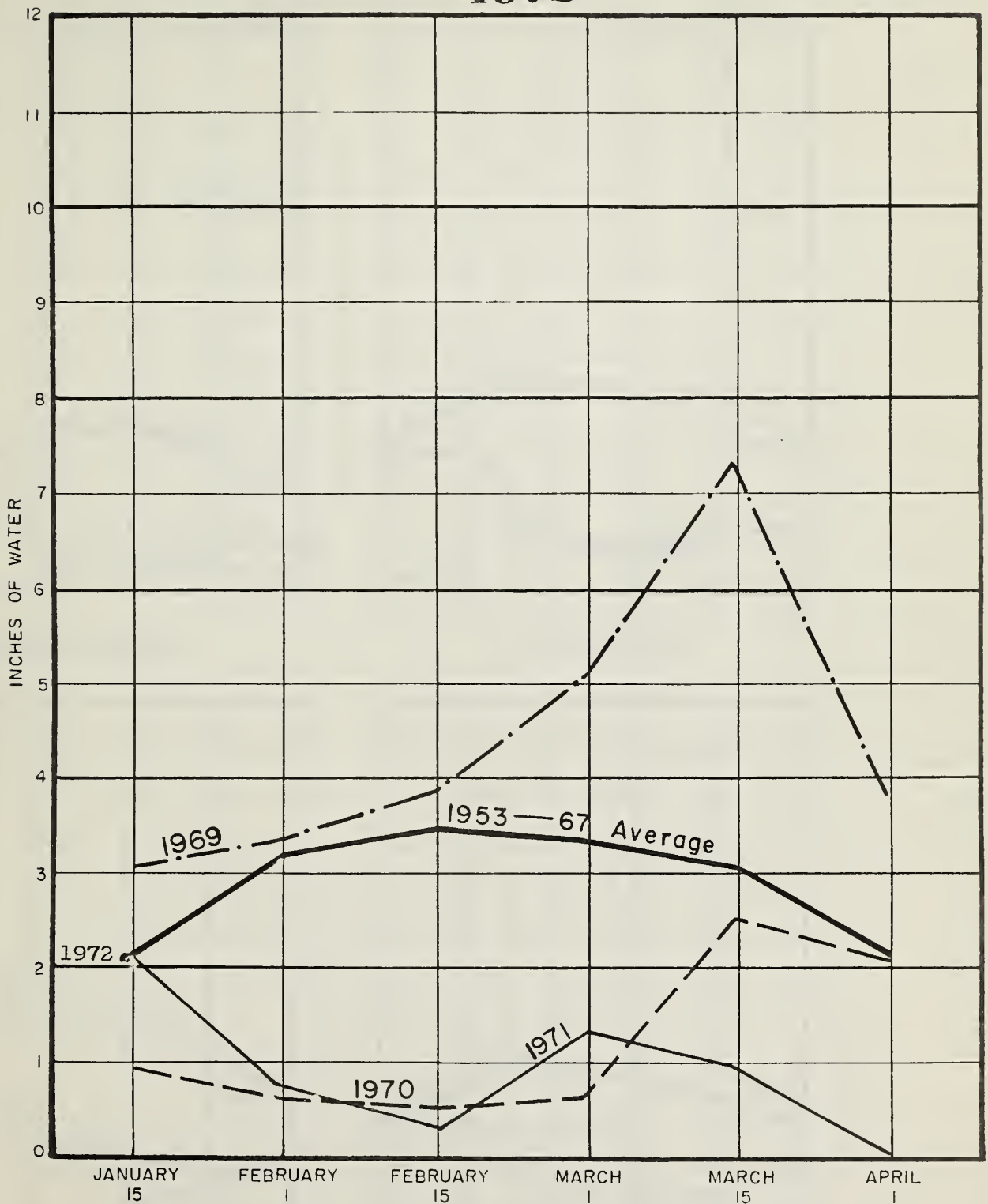
Water supplies are therefore expected to be adequate in all areas this year if near normal precipitation occurs through March.



RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING ABOUT JANUARY 15, 1972

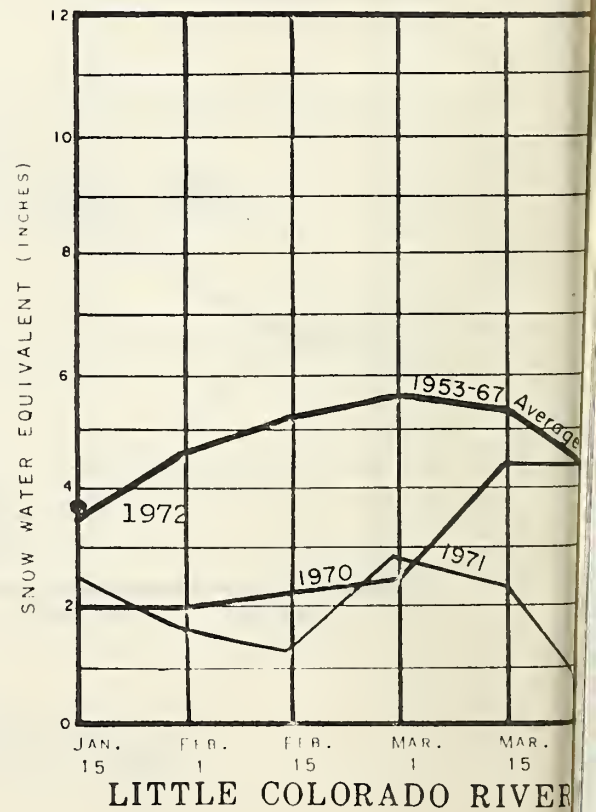
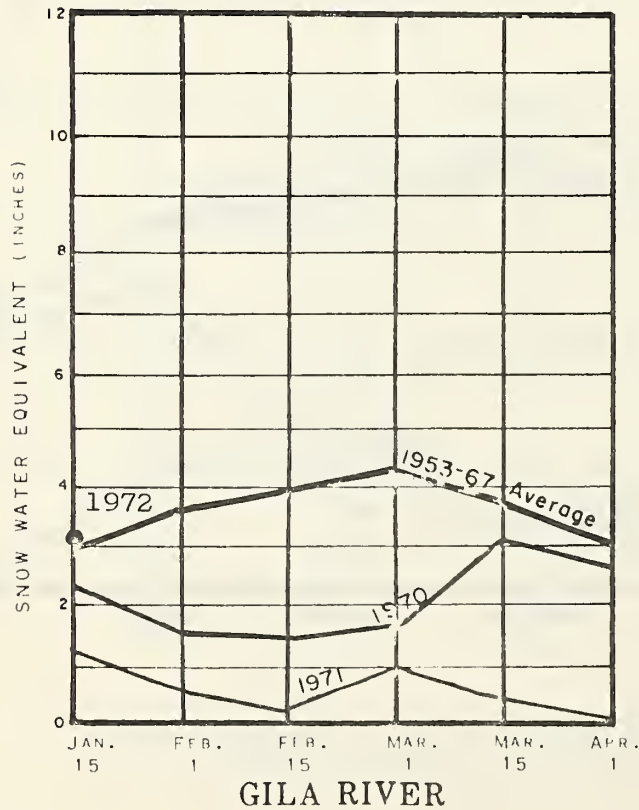
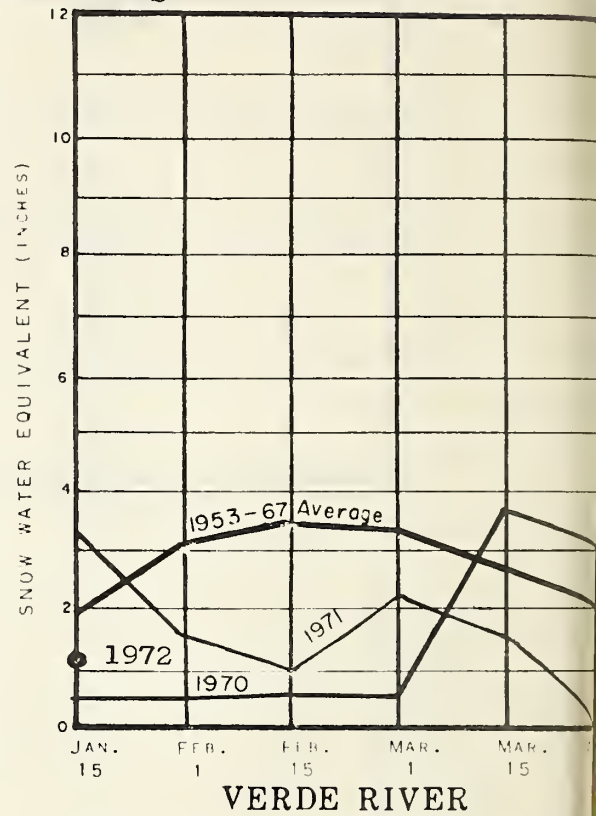
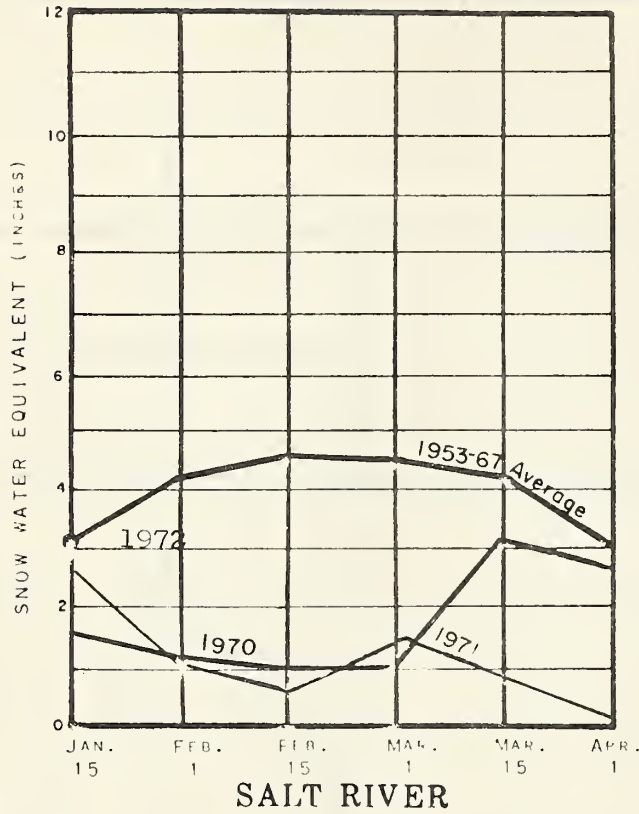
Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
<u>GILA RIVER DRAINAGE</u>					
Agua Fria	Lake Pleasant	157.6	55.6	74.4	40.1
Granite	Watson Lake	4.7	3.0	1.7	----
Granite	Willow Creek	6.1	1.7	1.1	----
Gila	San Carlos	948.6	133.8	9.9	89.4
Verde (2)	Bartlett & Horseshoe	317.7	123.8	138.4	93.4
Salt (4)	Roosevelt, Apache, Canyon & Saguaro	1755.0	919.2	945.7	909.0
<u>COLORADO RIVER DRAINAGE</u>					
Colorado	Lake Havasu	619.4	545.2	540.0	534.8
Colorado	Lake Mohave	1810.0	1574.8	1577.0	1652.3
Colorado	Lake Mead	26159.0	17805.0	16854.0	16754.3
Colorado	Lake Powell	25002.0	13001.0	12039.0	-----
Little Colorado	Lyman	30.6	7.5	11.4	8.7
Little Colorado	Show Low Lake	5.1	4.6	0.3	1.3*
† Based on 15-year period, 1953-67					
* Average is for less than 15 years of record					

RELATIVE SNOW WATER ACCUMULATION ARIZONA 1972



This graph represents the average snow water content on eleven selected snow courses on Arizona Sub-Watersheds.

1972 ARIZONA SNOW COVER BY WATERSHEDS



(COMPARISON WITH PREVIOUS YEARS)

ABOUT JANUARY 15, 1972

[illegible]

SNOW EARLY WINTER SURVEYS, 1971-72

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
Agassiz	11200	11/9	22	5.5	0	
Agassiz	11200	12/2	30	7.5	5.0	
Agassiz	11200	1/4	50	14.0	10.6	
Baker Butte	7300	12/16	15	3.1	3.9	
Baker Butte	7300	12/30	8	2.6	4.0	
Baker Butte #2	7700	12/16	19	3.9	---	
Baker Butte #2	7700	12/30	15	4.4	---	
Baldy	9125	11/17	11	1.0	---	
Baldy	9125	12/17	20	4.4	---	
Baldy	9125	12/29	18	5.2	1.6	
Bill Williams Summit	8950	12/30	19	5.2	---	
Camp Wood	5700	12/31	0	0	0	
Canyon Point	7600	12/29	4	0.8	3.7	
Chalender	7100	12/30	3	0.5	---	
Copper Basin Divide	6720	1/3	0	0	3.0	
Crazy Horse (A)	10200	12/16	24	4.8	---	
Forest Dale	6430	12/29	0	0	1.3	
Ft. Valley	7350	12/30	T	T	1.7	
Happy Jack *	7630	12/30	T	T	2.9	
Heber	7600	12/29	3	0.5	---	
High Peak (A)	10500	12/16	26	5.2	---	
Inner Basin #1	10100	11/9	19	4.7	0	
Inner Basin #1	10100	12/2	27	6.7	3.1	
Inner Basin #1	10100	1/4	40	13.3	7.7	
Inner Basin #2	9750	11/9	14	3.6	0	
Inner Basin #2	9750	12/2	22	5.0	1.8	
Inner Basin #2	9750	1/4	26	9.1	4.9	
Inner Basin #3	10250	11/9	12	3.4	0	
Inner Basin #3	10250	12/2	20	4.6	1.0	
Inner Basin #3	10250	1/4	23	8.4	2.7	
Iron Springs *	6200	12/31	0	0	0	
Maverick Fork	9050	11/19	14	1.3	---	
Maverick Fork	9050	12/17	22	4.5	---	
McNary	7200	12/29	2	0.8	2.2	
Milk Ranch	7000	12/29	0	0	---	
Mingus Mountain	7100	12/31	0	0	---	
Mormon Mountain	7500	12/17	19	3.7	4.7	
Mormon Mountain	7500	12/30	4	1.0	4.5	
Newman Park	6750	12/31	T	0	3.0	
Snow Bowl #1	10260	12/31	26	7.6	---	
Snow Bowl #2	11000	12/31	48	13.9	---	
Sunrise Summit	10600	12/16	42	10.6	---	
White Horse Lake Junction	7150	12/30	2	0.3	---	
Williams Ski Run	7720	12/30	9	2.4	---	



SNOW

ABOUT JANUARY 15, 1972

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>GILA RIVER</u>						
Bear Wallow	8100	1/14	3	1.1	3.2	3.1
Beaver Head	8000	1/14	6	2.5	0.4	2.2
Coronado Trail	8000	1/14	6	2.5	1.2	2.1
Crazy Horse (A)	10200	---	---	---	---	---
Emory Pass #1 *	7800	1/14	3	0.7	0.0	---
Emory Pass #2 *	7800	1/14	6	1.9	0.3	---
Frisco Divide	8000	1/14	6	2.1	0.5	1.8
Hannagan Meadows *	9090	1/14	21	7.3	2.3	5.6**
High Peak (A)	10500	---	---	---	2.9	---
Hummingbird (A)	10550	1/14	42	12.6	4.0	7.6**
McKnight Cabin * (A)	9300	1/14	12	4.1	3.4	---
Mogollon	7000	1/14	0	0.0	0.0	1.2
Nutrioso	8500	1/14	5	1.7	1.0	1.5
Redstone Trail	8600	1/14	14	4.8	2.0	5.1**
Rose Canyon	7300	1/14	0	0.0	1.6	2.0
Silver Creek Divide	9000	1/14	23	7.1	3.0	6.3**
State Line	8000	1/14	7	2.2	0.3	1.9
Whitewater (A)	10750	1/14	72	19.4	5.3	8.5**
<u>SALT RIVER</u>						
Baldy *	9125	1/13	18	5.2	2.5	4.2
Beaver Head	8000	1/14	6	2.5	0.4	2.2
Canyon Creek	7500	1/14	3	1.0	3.7	1.7**
Canyon Point	7600	1/14	1	0.3	4.3	1.9**
Coronado Trail	8000	1/14	6	2.5	1.2	2.1
Forest Dale	6430	1/14	0	0.0	1.6	0.7
Ft. Apache	9160	1/14	20	5.1	3.0	4.7
Hannagan Meadows	9090	1/14	21	7.3	2.3	5.6**
Hawley Lake	8300	1/14	8	2.4	4.4	3.6**
Heber	7600	1/14	2	0.5	3.4	1.8
Maverick Fork	9050	1/14	21	5.9	3.1	5.3
McNary	7200	1/14	2	0.7	2.8	1.1
Milk Ranch	7000	1/14	0	0.0	2.8	0.8
Mt. Ord (A)	11000	1/14	60	18.0	---	11.0**
Nutrioso *	8500	1/14	5	1.7	1.0	1.5
Smith Cienega (A)	9850	1/14	42	13.0	---	8.4**
Sunrise Summit	10600	1/14	41	13.0	---	---
Wilson Lake	9000	1/14	27	5.4	3.9	5.2**
Workman Creek	6900	1/12	4	1.2	5.2	3.0
<u>BILL WILLIAMS RIVER</u>						
Camp Wood *	5700	1/14	0	0.0	0.0	0.4
Copper Basin Divide	6720	1/14	0	0.0	2.0	1.2**
Iron Springs	6200	1/14	0	0.0	0.8	0.9
† 1953-67 15-year period. (*) Adjacent drainage. (**) 1953-67 Adjusted average. (A) Aerial observation: Water content estimated.						

SNOW

ABOUT JANUARY 15, 1972

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Elevation				Last Year	Average †
<u>VERDE RIVER</u>						
Baker Butte	7300	1/14	6	2.3	4.2	2.8**
Baker Butte #2	7700	1/14	13	4.6	---	---
Camp Wood	5700	1/14	0	0.0	0.0	0.4
Chalender	7100	1/14	3	0.9	1.7	1.5
Copper Basin Divide	6720	1/14	0	0.0	2.0	1.2**
Fort Valley	7350	1/14	0	0.0	1.3	0.9
Gaddes Canyon	7600	1/14	3	0.9	2.9	2.1**
Happy Jack	7630	1/14	T	0.0	3.3	1.4
Iron Springs *	6200	1/14	0	0.0	0.8	0.9
Mingus Mountain	7100	1/14	0	0.0	1.5	0.6
Mormon Lake *	7350	1/14	T	0.0	4.2	1.6
Mormon Mountain	7500	1/14	2	0.8	4.9	2.2
Newman Park	6750	1/14	0	0.0	3.3	1.2**
Snow Bowl #1	10260	1/13	23	7.0	5.2	4.8**
Snow Bowl #2	11000	1/13	45	13.7	6.9	6.4**
White Horse Lake Jct.	7150	1/14	1	0.2	2.0	---
White Spar	6000	1/14	0	0.0	0.8	0.9**
<u>LOWER COLORADO RIVER</u>						
Bill Williams Intermediate	8550	1/14	11	2.8	4.7	---
Bill Williams Summit	8950	1/14	18	5.2	5.9	---
Bright Angel	8400	---	---	---	---	---
Chalender *	7100	1/14	3	0.9	1.7	1.5
Fort Valley	7350	1/14	0	0.0	1.3	0.9
Grand Canyon	7500	1/14	0	0.0	1.9	1.1
Williams Ski Run	7720	1/14	8	2.2	4.0	---
<u>LITTLE COLORADO RIVER</u>						
Agassiz	11200	See page 6			---	---
Baldy	9125	1/13	18	5.2	2.5	4.2
Canyon Creek	7500	1/14	3	1.0	3.7	1.7**
Canyon Point	7600	1/14	1	0.3	4.3	1.9**
Cheese Springs	8600	1/13	17	3.9	2.3	---
Forest Dale	6430	1/14	0	0.0	1.6	0.7
Ft. Apache	9160	1/14	20	5.1	3.0	4.7
Fort Valley	7350	1/14	0	0.0	1.3	0.9
Happy Jack *	7630	1/14	T	0.0	3.3	1.4
Heber	7600	1/14	2	0.5	3.4	1.8
Inner Basin #1	10100	See Page 6			---	---
Inner Basin #2	9750	See Page 6			---	---
Inner Basin #3	10250	See Page 6			---	---
McNary	7200	1/14	2	0.7	2.8	1.1
Mormon Lake	7350	1/14	T	0.0	4.2	1.6
Mormon Mountain	7500	1/14	2	0.8	4.9	2.2
Nutriosio	8500	1/14	5	1.7	1.0	1.5
Snow Bowl #1	10260	1/13	23	7.0	5.2	4.8**
Snow Bowl #2	11000	1/13	45	13.7	6.9	6.4**
Wilson Lake *	9000	1/14	27	5.4	3.9	5.2**

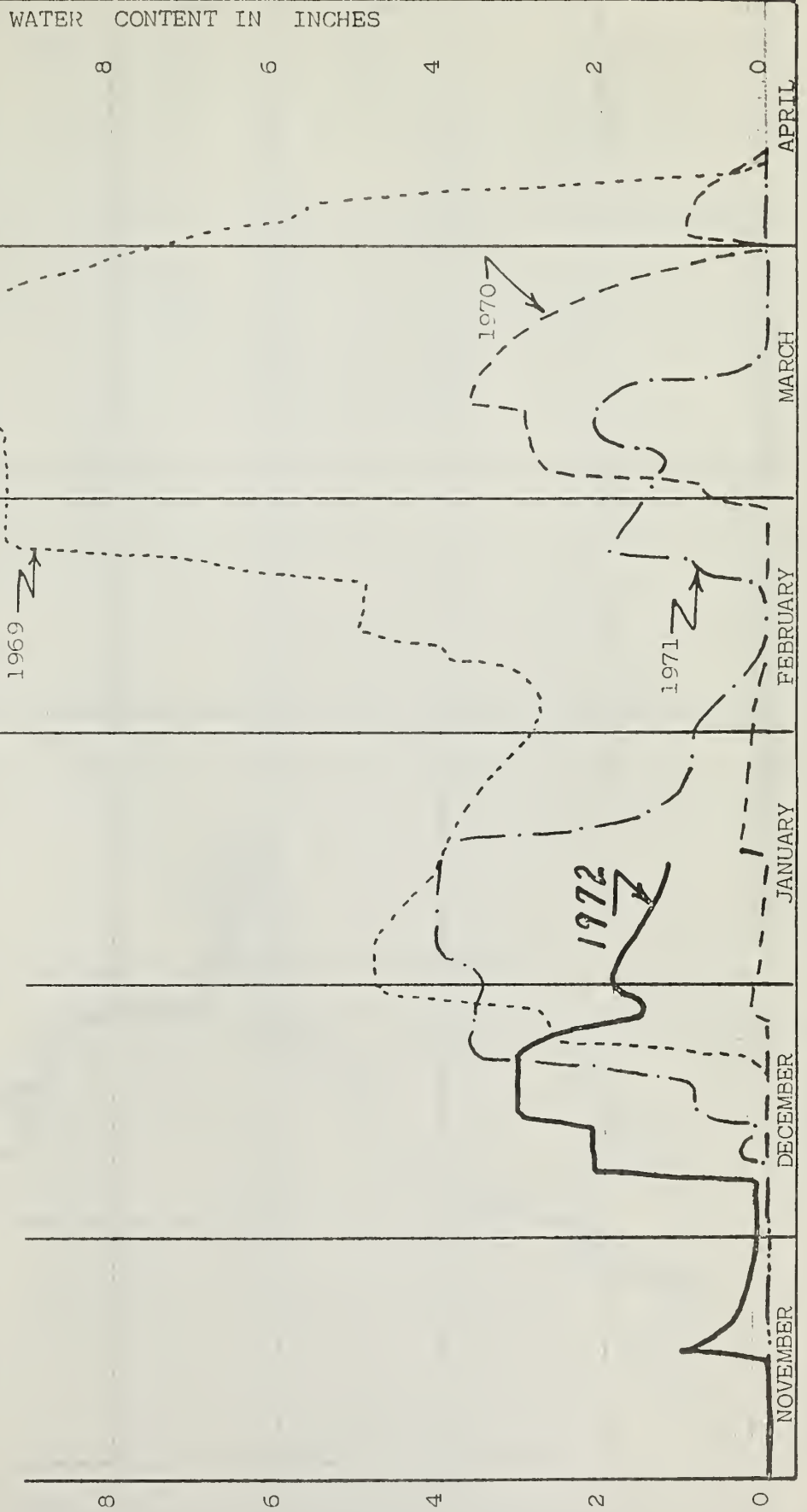
† 1953-67 15-year period. (*) Adjacent drainage. (**) 1953-67 Adjusted average. (A) Aerial observation: Water content estimated.

S N O W P I L L O W D A T A

BAKER BUTTE

Elevation: 7300

WATER CONTENT IN INCHES



SNOW PILLLOW DATA

BALDY

Elevation: 9125

10

10

WATER CONTENT IN INCHES

WATER CONTENT IN INCHES

8

8

6

6

4

4

2

2

0

0

1972
1971

NOVEMBER

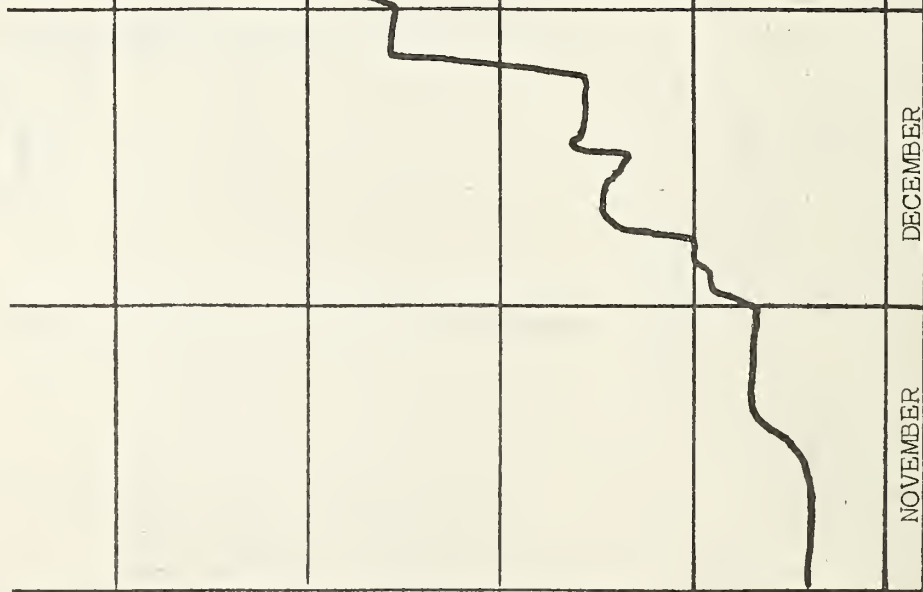
DECEMBER

JANUARY

FEBRUARY

MARCH

APRIL



S N O W P I L L O W D A T A

MAVERICK FORK

Elevation: 9050

WATER CONTENT IN INCHES

10

8

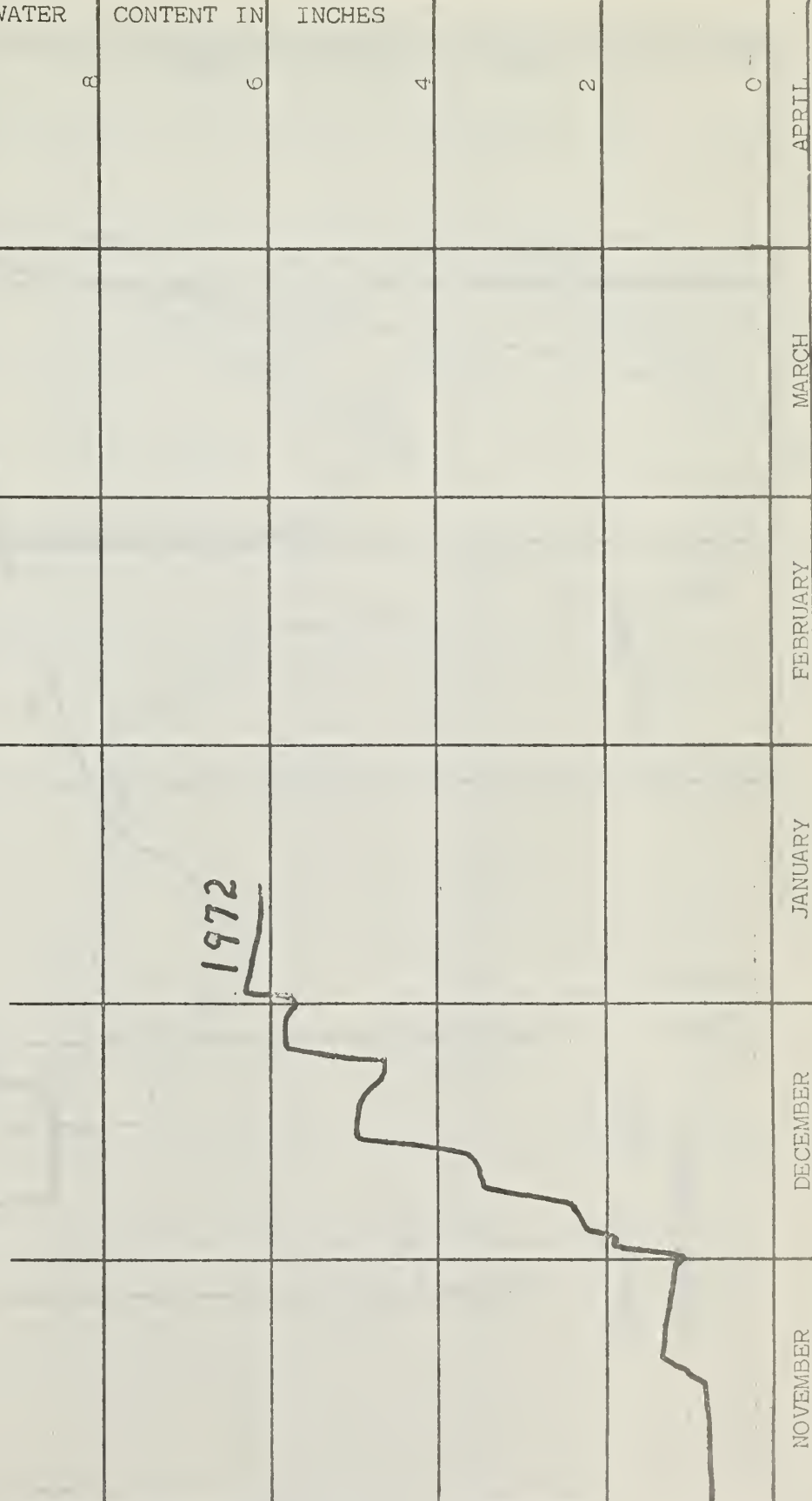
6

4

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1972



WATER CONTENT IN INCHES

10

8

6

4

2

0

NOVEMBER

DECEMBER

JANUARY

FEBRUARY

MARCH

APRIL

S N O W P I L L O W D A T A

MORMON MOUNTAIN

Elevation: 7500

WATER CONTENT IN INCHES

10

8

6

4

2

0

APRIL

MARCH

FEBRUARY

JANUARY

DECEMBER

NOVEMBER

1970

1969

1971

1972

WATER CONTENT IN INCHES

10

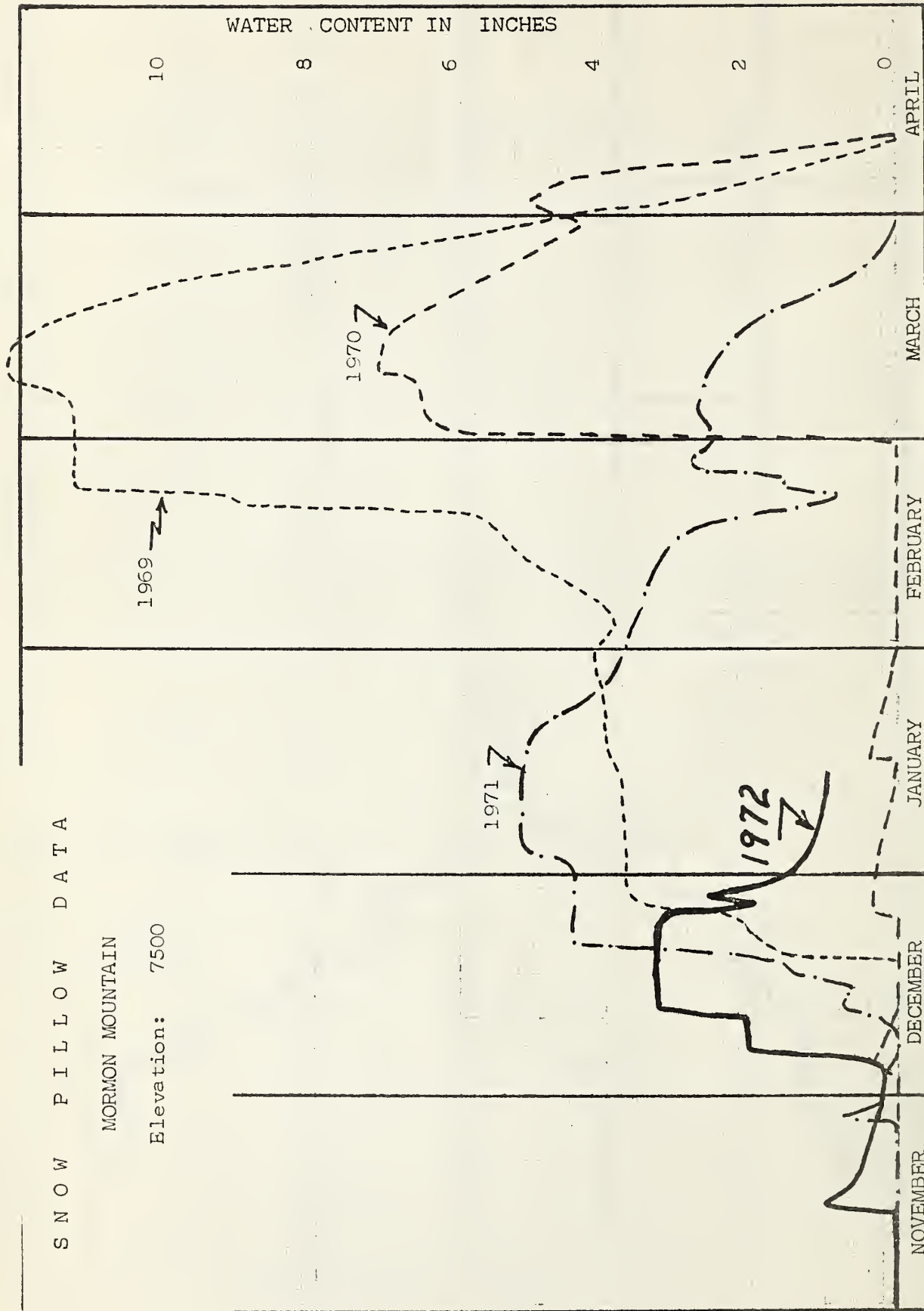
8

6

4

2

0



PRECIPITATION AT SELECTED ARIZONA STATIONS ^{1/}

A

STATION	Precipitation (Inches)			
	December - 1971		Current Water Year (Oct. 1971-December 1971)	
	Departure from		Departure from	
	Total	Normal	Total	Normal
Alpine	2.16	+ .89	8.29	+ 4.49
Ash Fork	1.12	- .06	2.29	- .31
Clifton	1.30	+ .28	4.50	+ 2.04
Douglas Smelter	1.73	+ 1.06	3.52	+ 1.75
Flagstaff WSO*	4.18	+ 2.53	8.95	+ 4.78
McNary	4.55	+ 2.18	14.20	+ 8.55
Payson Ranger Station	2.61	+ .51	6.01	+ 1.26
Phoenix WSFO**	.47	- .38	.74	- 1.06
Prescott (City)	1.73	- .04	4.04	- .03
Springerville	.75	+ .26	2.63	+ .90
Tucson WSO*	1.97	+ 1.05	3.84	+ 1.66
Winslow WSO*	.25	+ .43	1.98	+ .44
Yuma WSO*	.15	- .17	.15	- .67

^{1/} Data and Analysis furnished by Paul C. Kangieser
NOAA Climatologist for Arizona, National Weather Service, Phoenix

WSO* Weather Service Office

WSFO** Weather Service Forecast Office



PRECIPITATION (Inches)

ABOUT JANUARY 15, 1972

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. NOV. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>GILA RIVER</u>							
Silver Creek Divide	9000	1/14	.20	---	8.76	---	---
Hannagan Meadows	9030	1/14	0	1.34*	6.41	6.57*	98
Frisco Divide	8000	1/14	0	---	5.52	---	---
<u>SALT RIVER</u>							
Canyon Point	7600	1/14	0	---	6.52	---	---
Hannagan Meadows	9030	1/14	0	1.34*	6.41	6.57*	98
Little Wildcat (Heber Snow Course)	7600	1/14	0	1.77*	7.62	7.30*	104
Maverick Fork	9050	1/14	.15	1.29*	7.11	6.39*	111
Workman Creek **	6970	1/14	0	2.15	4.25	8.90	48
Wilson Lake	9100	1/14	.20	---	6.62	---	---
<u>VERDE RIVER</u>							
Baker Butte	7300	1/14	0	2.15	6.25	9.31	67
Copper Basin Divide	6720	1/14	0	1.05	3.21	5.75	56
Fort Valley **	7350	1/14	0	.97	2.71	4.62	59
Happy Jack **	7480	1/14	0	1.30*	5.13	5.42*	95
Mingus Mountain	7660	1/14	0	1.00	2.65	4.72	56
Mormon Mountain	7500	1/14	0	---	7.60	---	---
White Horse Lake Jct.	7150	1/14	0	---	6.08	---	---
<u>LITTLE COLORADO</u>							
Inner Basin #1	9830	1/4	0	---	6.60	---	---
Inner Basin #2	10050	1/4	0	---	7.85	---	---
Sheep Crossing (Baldy Snow Course)	9125	1/14	.30	1.46*	6.87	5.96*	115
Little Wildcat (Heber Snow Course)	7600	1/14	0	1.77*	7.62	7.30*	104
† 1953-67 Average							
* Adjusted Average							
** Data Supplied by U.S. Forest Service							
- 14 -							

SOIL MOISTURE

ABOUT JANUARY 15, 1972

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †
<u>GILA RIVER</u>							
Frisco Divide	8000	48	13.3	1/14 10/28	9.3 10.0	5.6 ---	9.7 ---
<u>SALT RIVER</u>							
Black River Divide	9100	48	16.8	1/14 11/19	17.8 17.8	16.6 ---	14.6 ---
Canyon Creek	7500	48	18.3	1/14 10/27	17.8 18.1	16.2 ---	15.0 ---
Corduroy Creek	6000	36	13.5	1/15 10/27	13.0 12.8	8.3 ---	7.9 ---
McNary	7200	48	16.3	1/14 10/27	17.7 17.7	13.8	14.8
<u>VERDE RIVER</u>							
Mormon Mountain	7500	48	16.1	1/14 10/27	17.8 14.0	14.0 ---	15.0 ---
Newman Park	6750	48	17.7	1/14 11/2	16.4 17.4	15.1 ---	14.6 ---
† 1953-67 15-year average							
- 15 -							

SNOW COURSE

SNOW SURVEYOR

Baker Butte #1 & #2	SCS - Dick Enz
Baldy	SCS - Wallace Slade
Bear Wallow	Forest Service - Carl Sollers
Beaver Head	Forest Service - Gene McDorman
Bill Williams Intermediate	Forest Service - Mike King
Bill Williams Summit	Forest Service - Mike King
Bright Angel	National Park Service - Kenneth Hulick, Dist. Rgr.
Camp Wood	Forest Service - Walter G. Richardson
Canyon Creek	SCS - Dick Enz
Canyon Point	SCS - Dick Enz
Chalender	Forest Service - M. Freshour
Cheese Springs	SCS - Wallace Slade
Copper Basin Divide	SCS - William Valikai
Coronado Trail	Forest Service - John O. Maeder
Crazy Horse	Forest Service - Cecil Sims
Emory Pass #1 and #2	SCS - Jim Powell and Travis Stevenson
Forest Dale	Bureau of Indian Affairs - Raymond Endfield
Ft. Apache	SCS - Wallace Slade
Fort Valley	Rocky Mtn. Forest & Range Experiment Station
Frisco Divide	Forest Service - J. L. Lockwood
Gaddes Canyon	Earl Barto
Grand Canyon	National Park Service - David A. Strobe, Dist. Rgr.
Hannagan Meadows	Forest Service - Gene McDorman
Happy Jack	Forest Service - Warren Harris
Hawley Lake	Bureau of Indian Affairs - Raymond Endfield
Heber	SCS - Dick Enz
High Peak	Forest Service - Cecil Sims
Hummingbird	Ray Freeman
Inner Basin #1, #2, #3	SCS and USBR - Jack Jorgensen & Jay Roberts
Iron Springs	SCS - William Valikai
Maverick Fork	SCS - Wallace Slade
McKnight Cabin	Ray Freeman
McNary	Bureau of Indian Affairs - Raymond Endfield
Milk Ranch	Bureau of Indian Affairs - Raymond Endfield
Mingus Mountain	Earl Barto
Mogollon	James Lyon
Mormon Lake	SCS - Jack Jorgensen
Mormon Mountain	SCS - Jack Jorgensen
Mt. Ord	Salt River Project - Bill Warskow
Newman Park	SCS - Jack Jorgensen
Nutrioso	Forest Service - John O. Maeder
Redstone Trail	James Lyon
Rose Canyon	Forest Service - Carl Sollers
Silver Creek Divide	James Lyon
Smith Cienega	Salt River Project - Bill Warskow
Snow Bowl #1 and #2	Forest Service - Ky Porter
State Line	Forest Service - J. L. Lockwood
Sunrise Summit	FAIR - Ron Malfara
White Horse Lake Junction	Forest Service - Mike King
White Spar	SCS - William Valikai
Whitewater	Ray Freeman
Williams Ski Run	Forest Service - Mike King
Wilson Lake	SCS - Wallace Slade
Workman Creek	Rocky Mtn. Forest & Range Experiment Station

The Following Organizations Cooperate in the Arizona Snow Survey Work

FEDERAL

- Department of Agriculture
 - Soil Conservation Service
 - Forest Service
 - Apache Forest
 - Coconino Forest
 - Coronado Forest
 - Gila Forest
 - Kaibab Forest
 - Prescott Forest
 - Rocky Mountain Forest and Range Experiment Station
 - Tonto Forest
- Department Of Commerce
 - NOAA, National Weather Service
- Department of Interior
 - Bureau of Reclamation
 - Region III
 - Geological Survey
 - Arizona District
 - Bureau of Indian Affairs
 - Fort Apache Reservation
 - San Carlos Irrigation Project
 - National Park Service
 - Grand Canyon National Park
- Gila Water Commissioner
 - Safford, Arizona

STATE

- Arizona Game and Fish Department
- Arizona State Parks Board
- University of Arizona
 - Arizona Agricultural Experiment Station
 - Water Resource Research Center

IRRIGATION PROJECTS

- Salt River Valley Water User's Association
 - Phoenix, Arizona
- San Carlos Irrigation and Drainage District
 - Coolidge, Arizona

PRIVATE

- Southwest Forest Industries, Inc.
 - McNary, Arizona
- Fort Apache Indian Reservation
 - White Mountain Recreation Enterprises

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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